

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Oak Ridge Reservation**

Project **OR-322 / ORNL Remedial Action - Non-Def**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0096**

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## **General Project Information**

### **Project Description Narratives**

**Purpose, Scope, and Technical Approach:**

**Project Status in FY 2006:**

**Post-2006 Project Scope:**

**Project End State**

**Cost Baseline Comments:**

**Safety & Health Hazards:**

**Safety & Health Work Performance:**

**PBS Comments:**

**Baseline Validation Narrative:**

## **General PBS Information**

**Project Validated?**

**Date Validated:**

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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## General PBS Information

Has Headquarters reviewed and approved project? No

Date Project was Added: 3/10/1999

Baseline Submission Date: 7/1/1999

FEDPLAN Project? No

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	N	N	N	N	N	N	N

## Project Identification Information

DOE Project Manager:

DOE Project Manager Phone Number:

DOE Project Manager Fax Number:

DOE Project Manager e-mail address:

Is this a High Visibility Project (Y/N):

## Planning Section

### Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	43,557	0	43,557	6,740	14,398	17,642	23,211	19,175	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	43,557	0	43,557	6,740	14,398	17,642	23,211	19,175	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	43,557	0	43,557	6,740	14,398	17,642	23,211	19,175	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	43,557	0	43,557	6,740	14,398	17,642	23,211	19,175	0	0	0	0	0	0	0

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	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

## Project Reconciliation

### Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 9/30/1999

Explanation of Project Completion Date Difference (if applicable):

### Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	14,398	Actual 1998 Cost:	23,211
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## Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-37,609	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	-1,015
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-38,624		

## Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	-38,624	
Additional Amount to Reconcile (+):	57,799	

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	19,175
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## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
ORNL Remedial Action - Non-Def Project Start	OR322-001		10/1/1996								
ORNL Remedial Action - Non-Def Project/Mission End	OR322-002		9/30/1999								

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ORNL Remedial Action - Non-Def Project Start	OR322-001			Y							
ORNL Remedial Action - Non-Def Project/Mission End	OR322-002				Y	Y					

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## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description			
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## Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
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Tech.

Deployed	Ntd	6.00	0.00	6.00					6.00					
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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
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Tech.

Deployed	Ntd												
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Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
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Tech.

Deployed	Ntd								6.00	6.00
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## Technology Needs

Site Need Code: ORTK-02

Site Need Name: Tank Solid Waste Retrieval

Focus Area Work Package ID: WT-08-01

Focus Area Work Package: Solids Pretreatment

Focus Area: TFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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## Technology Needs

Ultra High Pressure Scarifier	0
Houdini-II Remotely Operated Vehicle System	0
Remotely Operated Vehicle (ROV) System for Horizontal Tanks	0
Tank Waste Conveyance System	0

**Site Need Code:** ORTK-04

**Site Need Name:** Sludge Mixing and Slurry Transport

**Focus Area Work Package ID:** WT-03-01

**Focus Area Work Package:** Tank Integrity and Heel Retrieval

**Focus Area:** TFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):** Cost

### Technologies

Remote Maintenance Design for Tank Waste Compact Processing Units

Cost Savings (in thousands of dollars)

Range of Estimate

0

**Site Need Code:** ORTK-09

**Site Need Name:** Tank Closure

**Focus Area Work Package ID:** WT-05-01

**Focus Area Work Package:** Tank Closure

**Focus Area:** TFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):** Cost

### Technologies

GAAT Tank Isolation

Cost Savings (in thousands of dollars)

Range of Estimate

0

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## Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b> Ultra High Pressure Scarifier			
Deployment Commitment	1999		
<b>Technology Name:</b> Houdini-II Remotely Operated Vehicle System			
Deployment Commitment	1999		
<b>Technology Name:</b> Remotely Operated Vehicle (ROV) System for Horizontal Tanks			
Deployment Commitment	1999		
<b>Technology Name:</b> Remote Maintenance Design for Tank Waste Compact Processing Units			
Deployment Commitment	1999		
<b>Technology Name:</b> Tank Waste Conveyance System			
Deployment Commitment	1999		
<b>Technology Name:</b> Comparative Testing of Pipeline Slurry Monitors			
Deployment Commitment	1999		